

2. (Amended) The method according to claim 1, wherein said frequency swing is modified within a preadjusted range.

5           3. (Amended) The method according to claim 1, further comprising the step of basing said optimized transmission behavior on a table reproducing an obtainable range of said transmission dependent on said adjusted frequency swing.

10           4. (Amended) The method according to claim 3, further comprising the step of optimizing said frequency swing toward a maximal range based on said table when said evaluation result is a low field intensity and a low error rate at the same time.

15           5. (Amended) The method according to claim 1, further comprising the step of basing said optimized transmission behavior on a second table reproducing an obtainable interference immunity of said transmission dependent on said adjusted frequency swing.

20           6. (Amended) The method according to claim 5, further comprising the step of optimizing said frequency swing toward a maximal interference immunity based on said second table when said evaluation result is a high field intensity and a high error rate at the same time.

25           7. (Amended) The method according to claim 1, wherein said transmission ensues according to the DECT standard.

            8. (Amended) The method according to claim 1, further comprising the step of selecting an optimal frequency swing lower for a maximal range than the frequency swing for a maximal interference immunity.

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9. (Amended) A device for wirelessly transmitting data according to an FSK method, comprising:

a receiver for receiving data;

a first measuring device for measuring an error rate of said received data;

a second measuring device for measuring a field intensity during said reception of data;

an evaluation unit for evaluating said measured error rate and said measured field intensity;

a control unit for adjusting a frequency swing of the FSK method, which is utilized for wirelessly transmitting data by a transmitter dependent on said measured error rate and said measured field intensity in order to optimize transmission behavior.

10. (Amended) The device according to claim 9, wherein said frequency swing can be modified within a preadjusted range.

11. (Amended) The device according to claim 9, wherein said evaluation unit further comprises a first table reproducing an obtainable range of a transmission dependent on said adjusted frequency swing for purposes of optimizing transmission behavior.

12. (Amended) The device according to claim 11, wherein said frequency swing is optimized toward a maximal range on the basis of said first table when said evaluation unit detects a low field intensity and a low error rate at the same time.

13. (Amended) The device according to claim 9, wherein said evaluation unit further comprises a second table reproducing an obtainable interference immunity of a transmission dependent on said adjusted frequency swing for purposes of optimizing transmission behavior.

14. (Amended) The device according to claim 13, wherein said frequency swing is optimized toward a maximal interference immunity on the basis of said